

THIS MONTH WE SALUTE

ELLIOTT BARTA

W4SCY

(See Page 13)

FLORIDA SKIP

Vol. 12 No. 2

THE ALL-FLORIDA RADIO AMATEUR'S PUBLICATION

JULY 1968

Price 20c

ARRL Board Meeting

By C.J. Bolvin, W4LVV
This was supposed to be a "routine" Board Meeting -- after several years of non-routine "crisis" type of meetings. No major Articles and By-Laws revisions, no major FCC Dockets, no DX controversies -- just a nice, quiet, easy-going session -- hah! I think such sessions are gone into history along with spark, buggy whips, and the nickel cigar.

I won't go into the details -- you can all read them in QST. Rather, I'll try to interpret. Two quite important actions were taken: first, the establishment, on an 18 month trial basis, of Advisory Committees. The two fields chosen for the first Advisory Committees are "VHF-Repeater" and "Contests." The VHF-Repeater Committee is being established because this is a current problem, involves a very rapidly growing group, and there are current petitions before the FCC which should have League comment. HQ and the Executive Committee needs the expertise of non-staff members. The Committee on Contests is needed to determine just what we should do about the growing number of contests, not necessarily sponsored by ARRL, but resulting in apparent disruption of week-end non-contest activity.

Other Committees were considered, including DX, but these have been temporarily shelved until we see how the first two work out.

Second important item: this is a study of band usage, running until early 1970. This means

(Continued on Page 12)

AAA's BEBA Net To Carry July 4th News

BEBA amateurs will swing into action the afternoon of July 3 for a weekend of collecting and dispensing information to the motorists of Florida, designed to Bring 'Em Back Alive.

Following a pattern established so successfully last Labor Day, headquarters will be set up in the Orlando AAA office, nerve center of the Holiday News Service.

Again that weekend, Hal (W4-BKC) and Evelyn (K4UIZ) Shea will handle traffic from their station in the AAA office. They will be assisted by local Orange County AREC members.

To simplify, and perhaps improve communications, the following is suggested:

More participation from CW operators on 3651KC evenings, and on 7090 daytimes. The Orlando collecting station will be available on those two frequencies unless otherwise notified. Primary SSB frequency will be 3950 evenings, 7230 days, monitored throughout the operation.

All Florida county ARRL Em-

ergency Coordinators are requested to designate stations to supply news reports to these frequencies.

If there is no EC in your county, you are requested to take charge.

AAA Coordinators Keith Leslie and Hampton Dunn pass along this information:

All AAA personnel participating in the BEBA operation are volunteers, just like you are. Most have no experience in news gathering, other than previous BEBA campaigns. Consequently, there may still be gaps in proper coverage of certain territory. As a consequence, we may have to rely on amateurs not only to deliver the news, but to help gather it.

Don't be disappointed if some information you gather doesn't happen to be used. We encourage transmission of any news information you can gather - but it may be crowded out by material the editor determines to be required by the circumstances of the moment.

We will try to give "call letter" credit on outstanding information, but obviously, we can't do it in most newscasts.

Following is a news coverage guide for your information:

Headquarters will be in close contact with the Florida Highway Patrol and Florida Parks Sys-

(Continued on Page 12)

Ham Autos Tested In November

By Howard Kelley, K4DSN

Florida's new auto inspection law requires each and every car and truck bearing a Florida license tag to be inspected twice a year. The month of inspection is determined by the last digit on the tag.

Drivers who carry special ham license plates will be required to have their cars inspected during the months of November and May. The entire month is reserved for all special tags that do not end with a figure.



POLK COUNTY FIELD DAY 1967. The two on the top left are, left to right: K4EBE Ed, WA4WZD Jack. Those working, also from the left: WA4LIW Jack, WA4ZWW Jim, WA4TYF Vaughn, WA4ZTY Charlie, WB4DUN Bill. The one not showing his face is WA4WZZ Ken, the cook.

FLORIDA SKIP, INC.

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Miami Springs, Florida 33166

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Deadline — 10th of month in Box 501, Miami Springs, Fla. 33166.

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Dear Mabel XYL Award, c/o Skip,
Box 501, Miami Springs, Fla.

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NAVY MARS, Jim Wilson W4GDK,
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FATT, W4ZAG, Tampa

CLUBS

Broward ARC, W4GDK, Ft. Lauderdale
NFARS, K4DSN, Jacksonville
W. Fla., W4RKH, Ft. Walton Bch.
Florida, W4LKM, Ft. Laud.

2/FLORIDA SKIP July 1968

Orlando ARC, W4BKC, Orlando
HARS W4NQX Tampa
TARC, WA4HDK, Tampa
VERO BEACH ARC, WA4QVJ
Vero Beach.
Platinum Coast ARS, WN4FVA,
Melbourne
GULFSTREAM SOCIETY of A.R.
OPS WB4AID, Lake Worth.
So. Miami, W4NE, Miami

DADE ARC - W4EDP, Miami
Suncoast Roving and Florida,
W4BAV, Sarasota
Indian River ARC, W4EWB,
Gainesville, ARS, WA4SXD

EX - CALLS

And they still keep coming.
Have you sent in yours?

W4BNE ex W8HGI, W8QUK
W4NG ex W4DGW/MM/OQ5/Z-
D4, KJ6AC, EL0A
W4ZZZ ex W3EJ, W3ZZZ, KL-
7LG, K5AF (old C.Z.)
W4CG ex W4CB, W4BZA, W4B-
ZB, K2BM, KP4CF, KV4BB,
KZ5CG

WA4JLH ex W8VLR
K4BLM ex 2AGY
W4PAO ex W9OTR
FC Fassett ex 4BYR, 8KUH, 5-
ZZZ, 5RM, 6HS, 1BOX, 1RBX
WA4QPR ex KZ5WZ
K4DF ex WA4STD
W4DVR ex W3JAN, W5MHY, W-
4DVR

WB4DRL ex W2IQS
W4JQ ex W4ACZ, W4LS, W2YM,
U4JI, 4XK
W4SPA ex KN4VRU, K4VRU, W-
B6ISV

W4IM ex W4GHP
W4IL ex W4HQW
W8JPB ex K4YOQ, WN8JIK
WB4JLG ex CO2DB
WB4EMU ex CO2GU
WA3IMW ex CO8OK
WA4ZST ex CO2DX
WA4ZZG ex CO2ZQ
KP4CRT ex CO2SW
WB4FNG ex KG6BQ, W8LXN

Guest Editorial

I have just come across the perfect gift for all our DXers. If you can get the XYL to read this and come across you will indeed be in business. One of our manufacturers has just introduced a new "commercial" linear. (The quotation marks are not mine but those of the manufacturer.) It is advertised as having the capacity of a full FOUR THOUSAND WATTS PEP. Now that is just what we need more of on twenty meters. Up until now, the only ones we had to worry about were the ones who had the know-how and resources to build such a final. Now everyone should be able to obtain a big linear sooner or later, even if it does mean selling the house.

Perhaps some of you think that I am being a bit too harsh. Why shouldn't it be proper for a firm to advertise a "commercial" linear in the amateur magazines? After all there are many people who read these magazines who have commercial interests in communications. I admit that this in itself seems to make good sense. The only thing that seems a bit out of line is the advertising of this piece of equipment is that it seems to advertise the "commercial" aspect with tongue-in-cheek. When you add to this the fact that the bandswitch of this "commercial" linear is marked 80, 40, 20, 15, and 10, you get the idea that this final is not solely intended for commercial use.

Now this is not the only linear made that was capable of running illegal power but this does seem to be the most obvious so far. I say so far because this is likely to lead to the development of more "commercial" linears. In our system a manufacturer should develop anything he thinks will sell but we as DXers should not buy these products for our use on the ham bands.

I do not wish to imply that the manufacturer of this linear and the manufacturers of other linears do this with the intent of encouraging their use on the ham bands. Nor do I wish to imply that the people who buy them do so with the intent to run illegal power. But I do think that if one owns a final such as this, the temptation to run it up to its maximum ratings would be mighty great when Don Miller fires up from the next spot.

Even at one KW we "bomb" quite a lot of the DX stations off the bands. A lot of them are limited to a hundred watts or so. I know that many of them run more than that but that only puts them up to our legal level to begin with. Those DX stations who do stick to their laws seem to get through anyway. When you analyze the need here in our country for more than the legal limit you can only come up with answer -- the need exists to talk over the fellow who already has more power than he is allowed. This is a very competitive pastime we take part in and it seems everyone has to try to outdo everyone else. This is a healthy attitude and should be encouraged but it should also remain inside the law. We have accomplished nothing if we do not play the game by the same rules. One could win almost any game even if he had no talent for the game if he were allowed to make his own rules.

Let's all play by the rules and do what we can to encourage others to play by the rules. One way we can do this is not to put the FOUR THOUSAND WATT temptation in our way. I don't think I am strong enough to resist using those four thousand watts at times if I had them available. Are you?

(W4MVB — DX BULLETIN)



Letters To Editor

Editor:

This letter is written in reference to an article in the March issue of SKIP.

Reference the Air Force MARS article, page 11 with a discussion about a new AF-MARS frequency, 4416KHz.

The author dislikes the use of "creeping Military procedure sneaking up on us..."

In my opinion, I thought that the

MARS programs were to teach military procedure to amateur radio operators for many reasons, including to have a force of qualified radio operators trained in Military radio operating procedure for times of national emergency.

Seems to me that hams these days join the MARS programs to earn points

(Continued on Page 14)

Lightning Facts and Protection

By Jack Wainwright - W4KY

(PART 1)

Summertime is thunderstorm time. Is your antenna installation properly protected against lightning? Can you rest assured that your expensive equipment will be safe? In this two part article we will investigate the mechanics and theory of lightning, the methods, types, and installations of protective equipment, and the safety procedures to be observed. Even if you are not an amateur, we believe you will obtain useful information for the protection of your property and personal safety. Let's get on with it.

A lightning stroke is one form of atmospheric electricity flow. This electricity may originate from the charging of air particles by combustion of fuels, by separations or breakup of water drops in rain or the fracture of snow flakes, or by ionization caused by solar radiation. The latter accounts for the greatest amount of atmospheric electricity generation. For comparison, another type of atmospheric electricity flow is aurora discharge near the magnetic poles, and another is 'St. Elmo's fire,' found on ships at sea under certain atmospheric conditions and is a corona or brush discharge. The flow of electricity may be from one part of a cloud to another part, from cloud to cloud, or from cloud to earth. These help account for such things as rain, cloud, and wind static.

We may consider the earth as a negatively charged conductor separated from the positively charged conducting ionosphere by an air dielectric or as a spherical capacitor. The path of a lightning discharge depends on the electrical conductivity of the air which in turn varies with the distribution and proportions

of ions in the air. Air turbulence and the manner of ion formation are also contributing factors. The greater the number of free ions the greater the conductivity. A thunderstorm may be said to convert thermal energy into electrical energy. As this energy builds up in potential by separation or breakup of rain drops and fracture of snow flakes which are also present, high ionization occurs and a charge is induced into the earth surface. When the potential reaches a point that breaks down the resistance of the air, a spark discharge takes place which we call lightning. Although the earth is negatively charged in relation to the ionosphere, in the case of a thunderstorm it assumes a positive charge in relation to the base of a thunderstorm cloud which is negatively charged. This is accomplished by electrostatic induction.

The actual lightning stroke which is usually seen as one stroke by the eye, consists of multiple strokes too fast to be seen. The process of a lightning discharge starts with what is called a step leader from the base of the thunderstorm cloud towards ground. The step leader starts and stops many times on its way to ground at the fantastic speed of one ten-thousandth of a second, creating a path of ionized air as it progresses. As it approaches the ground surface, positively charged ground streamers surge upward from the ground to meet it. These ground streamers are multiple in nature and of very high potential. They cover quite a large area adjacent to the actual point of discharge and prior to it. They search for elevated positions and the best conduct-



THIS LIVE SHOT was taken during the heat of our recent FLORIDA QSO PARTY of W4BYB, Rex Trobridge, Chairman of the contest and his logging assistant K\$JWM, Jim Ferson both of Miami Springs. Operating as a team, using the DRC call W4NVU/4 he placed first with 34,782 points. Sorry, they were too busy "watch the birdie".

ivity. This accounts for the extreme danger of remaining standing or erect in an open area or in a boat during a thunderstorm. It also reveals the danger of standing under or near elevated objects which are poor conductors such as trees, wooden poles, or masts.

When the step leader makes contact with a ground streamer, a return stroke surges upward from the ground along the path of ionization to the cloud at an estimated speed of sixty-two thousand miles per second. This produces the bright flash of lightning as seen by the eye. The process is frequently repeated many times during the discharge by a new dart leader from the cloud following the path of ionization and a return stroke from the ground. Branching may also occur where the step leader divides and contacts two or

more ground streamers, dividing the discharge between them. The time interval of duration usually lasts about one half second. The width of a lightning stroke is approximately one to five inches in diameter although to the eye they appear much larger. Voltages involved are in the millions and currents in the thousands of amperes. This represents a large amount of power and energy and can be highly destructive. Incidentally, the thunder is produced by the sudden thermal expansion of the air in the path of the stroke. Now let's investigate ways the amateur may protect his equipment and his person from the dangers of lightning discharge.

(Continued next issue)

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GRICE ELECTRONICS, INC.

4/FLORIDA SKIP July 1968



New Novice Net Formed

Recently a new novice net was formed. It's called QTM - Tampa - Miami however all Novices are invited to check in each Sunday morning starting at 10 a.m. on 7164. Thus far it is a controlled informal net. Presently George Henning WN4JFA of Miami in NCS and publishing a one sheet QTM Bulletin. Check in and get on the mailing list. They have a lot of fun.

HAM POSTAL CHART

By Howard Kelley K4DSN

The United States Postal Service increased some of its rates for foreign mail on May 1, 1967. The new International Postal Rates will affect those hams who send QSL cards either by surface or airmail. The rates are now in effect.

Here's a handy chart for determining the proper amount of postage for mailing QSL cards or letters anywhere in the world. This list is based on the 1968 domestic and 1967 foreign postal rates. It's important to keep in mind that domestic rates are based on the ounce and most foreign mail on the half-ounce.

SURFACE RATES

QSL cards	
Canada and Mexico	5¢ each
All other Countries	8¢ each
Letter Mail	
Canada and Mexico	6¢ per ounce
All other Countries	13¢ 1st ounce
	8¢ each additional ounce

AIRMAIL RATES

QSL cards	
Canada and Mexico	8¢ each
All other Countries	13¢ each
Letter Mail	
Canada and Mexico	10¢ per ounce
Central and South America, Caribbean, Bahamas, Bermuda, St. Pierre, Miquelon	15¢ per half ounce
Europe and Mediterranean Africa (see exceptions below)	20¢ per half ounce
Estonia, Latvia, Lithuania, USSR, Asia, the Pacific Oceania, Africa (except Mediterranean)	25¢ per half ounce

When sending cards or letter mail to APO or FPO addresses, use normal surface or airmail U.S. postage.

(CLIP & SAVE)

New Transistor Manual

Anyone who works with transistors is familiar with the difficulties involved in locating electrical and physical data for a specific type. Unless the manufacturer is known and his published information is available, a long and possibly fruitless search can result.

The latest edition of TRANSISTOR SPECIFICATIONS MANUAL, compiled by the Howard W. Sams Engineering Staff, solves nearly all of these problems. It lists the electrical and physical parameters, along with the manufacturers of nearly 6,000 transistor types - nearly double the number in the previous edition.

All the essential electrical

data required to determine the suitability of a transistor for a specific circuit are listed. This includes voltage, power, current and temperature limits that should not be exceeded, as well as polarity, leakage, gain, and frequency parameters that determine how the transistor will function in the circuit.

Each transistor listing is keyed to an outline drawing that provides the physical measurements necessary to install the unit or to determine whether the transistor will meet a particular set of mounting requirements.

All transistors listed in the manual are keyed to diagrams that indicate the physical po-

sition of the emitter, collector, base and any other terminal located on the device.

Transistor manufacturers are listed to provide a market source for the units and as a guide to further information. When a type is no longer made, the last known manufacturer is listed.

The manual condenses a vast amount of information in a form so that you can quickly find desired facts for nearly any transistor.

Copies are available from electronics parts distributors and bookstores throughout the country, or from the publisher, Howard W. Sams & Co., Inc., 4300 West 62nd Street, Indianapolis, Indiana 46206.

Transistor Specifications Manual, 2nd Edition, Catalog No. 20553 (HTA-2) Size: 224 pages, 5-1/2 x 8-1/2". List price: \$2.95.

After hearing and reading of all the furor from the amateur fraternity about pending licensing changes brings to mind a comment that Charles Steinmetz made some years back. Said Steinmetz, "What a baby wants and what it thinks it wants are two different things; and exactly the same can be said of most adults." This seems to apply to a goodly number of amateurs.

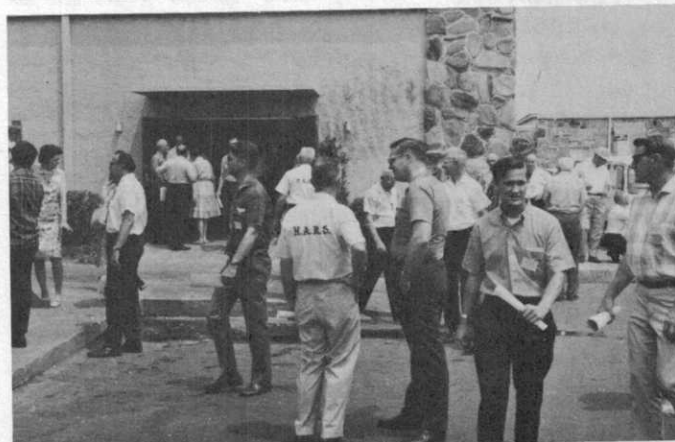
Onyx



July 1968 FLORIDA SKIP/5



FEB. 26, DAYTONA BEACH ARA celebrated its 12th annual banquet. Also honored at the banquet was Clyde Mashburn, W4SDR (seated). Clyde, manager of the Florida Midday Traffic Net has also conducted his "Hambone College" for 12 years. W4SDR is here being congratulated on his birthday by WN4HQX, WB4GUH and Mom of WA4JCP.



THE ORLANDO HAMFEST last month brought hundreds of Florida amateurs together for the first time. Here many sign up (background) for the many door prizes and Saturday night banquet. Congratulations to OARC for another excellent Hamfest. (photo by W4KY ex W4IEH)

CLUB NEWS

GAINESVILLE NEWS

By Mack Tyner, WA4SXD

The Gainesville Club held its annual Field Day meeting on Saturday, June 14. Ken, WB4BGJ, is FD chairman this year, and he has done a fine job of coordinating the collection of equipment, generators, antennas, etc. He has organized every able-bodied members of the club so that we will be able to get everything up and operating with a minimum of time and effort.

Gainesville likes the new rules, intends to follow them to the letter, encourages all others to do so also.

A welcome back goes out to Hatz, K4JUZ, who has moved back to Gatorland after an all-too-long stay in Georgia.

FLORIDA VHF SIDEBANDERS

By R. D. Ralston - K4LFF

By the time you all read this, I hope to be back on SSB with a very good rig. The past several months has filled up plenty of pages in the log.

HILLSBOROUGH AMATEUR RADIO SOCIETY, INC. WA4GJJ

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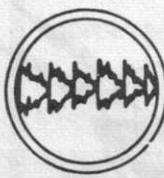
DADE RADIO CLUB, INC. W4NVU

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- MEETINGS -
3rd Tuesday
Each Month
At Museum of Science
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3280 S. Miami Avenue
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FLORIDA SIDEBAND ASSOCIATION

Meets Sundays 2200 GMT - 3940kHz



FSBEN - Thurs.
3940kHz
0030 GMT
FAST Net
Daily
3940 kHz
2300 GMT

A FRATERNAL ORGANIZATION
All Sidebanders Always Welcome

With all the 6 meter stations in the Tampa - St. Pete area for instance, I have heard 2 in St. Pete and 3 in Clearwater except for one day when there was a temperature inversion and was able to work 2 others.

Hear every day many mention that they are going to improve their license; but when do you hear them say they are going to improve their antenna? Know of one of the more serious VHFers in the state that had more money tied up in his antenna than many do in their entire station, yet he recently took it down and put up a much better one. This man is not rich either, but just another working man.

I'll close this time with one final note of possible interest. I have found an insurance company that will insure properly installed towers and antennas. Write me for more info if interested. Doesn't anyone in the panhandle read Skip? Let's hear from you.

DADE RADIO CLUB

By W4EDP

The big word right now is get ready for F.D. and that is what we have been up to mostly. Just about all set as far as planning can go, and if Murphy stays home we expect a normal type of FD this year, if Murphy shows up we are making no predictions.

The Club has taken on a little project trying to get a radio club set up and going at La Salle High School. The Club members were asked to donate usable parts, chassis, tubes, meters, or what have you to get them started. Well, all this stuff was brought to the last meeting and it looked like the Broward Club auction for a while. Anyhow the good Father now has enough to get his Club started off good. We hope to

NORTH FLORIDA AMATEUR RADIO SOC. NOFARS

W4IZ
MEETS
2nd THURSDAY
AT 7:30 P.M.
DUVAL CD HDQTRS.
107 Market Street
JACKSONVILLE, FLA.

ARRL W4/K4 QSL Bureau
PAT PARRISH, K4HXF
R.F.D. 5 - Box 804
Hickory, N.C. 28601

W4 - WB4 - WN4 - QSI Bur.
DICK TESAR, WA4WIP
2666 Browning Street
Sarasota, Fla. 33577

Send No. 50 SASE Today

hear them on the air next fall with their own station.

Our last meeting at the Museum presented a program on Nicola Tesla which was most interesting, and then the last issue of Skip had a good article all about the same gentleman. Andy must be reading our mail there, or sumpin.

Vacation time is here again and the Club will go into semi retirement for July and August. Carl and Evelyn Gauzens are planning a trip through New England, and they will be leaving very shortly. Hope Carl remembers to take a portable rhombic antenna with him this year so we can keep in touch with them. That 7 watt mobile needs a little help, you know.

That is it for this issue. CUL 73 Jim

WESTERN FLA. NEWS

By Frank M. Butler, Jr., W4RKH

Pensacola: WA4IZM left for overseas tour. W4NOG had to resign job as EC; are there any takers? WA5K-AK/4 made a nice score in CD Party from WA4ECY. New USNCTC club officers are: President-WA5KAK; Secretary-WA3CRK; Supply Officer-K3-YWJ. K4NMZ completed his 2m KW linear. WB4DHL is on 2m SSB as well as 6m. WN4GY runs a DX-40 and H-Q-110 on 15m.

Milton: WB4JRP just received his ticket and already has an S-Line. K-4BDF/JOQ are QRL with their new home.

Fort Walton: W4WBW and WB4HBY are newly licensed. W4ZGS and local 2m FM gang took part in Red Cross SET. WB4GYX and W4BVE were loaded with traffic from Armed Forces Day at Eglin. The WA4EVU repeater was put to good use during a 2-day Scout canoe race.

Marianna: Officers of the new club formed here are W4KCA, President; Ken Lester, V.P.; and WB4DFM, Treasurer. They meet every other Monday, 7:00 P.M., at the Air Base. K4UNT took WA4DED's place as Electronics Instructor at F.S.B.

Tallahassee: WB4JWZ is a new General Class; he runs a Galaxy III. Also new is WB4IXK. W4JGD put up a 3-element 15-meter beam.

B.A.R.C. NEWS

By Jim Wilson W4GDK

This past month it was necessary to fill two vacancies in our official family. Incoming were Ormond Bullis W4PKB as Treasurer and Dick Gunter WB4CIC as a Director.

After our highly successful "Ladies Night" at the last meeting we are hard pressed to equal it. We do, however, have some excellent programs planned for the months ahead. Don't miss them!

Ruth Christian WA4HED is the new Chairman of the Editorial Committee which gets out our BARC News. Aiding her are Al Henderson, Dick Gunter, Jack Wainwright, Bill Simek, Fred Heinemann, John Essock, Tom Middleton, Dick and Harriet Chmelik and Bill Lindsey. With a staff like that the News should flourish.

B.A.R.C. meets the second Wednesday of each month at the Broward County Medical Assn. building 2200 So. Andrews Ave., Ft. Lauderdale, at 8 P.M.

We cordially invite anyone interested in ham radio.

SUNCOAST ROVING REPORTER

The SPAGC Hamfest, held May 19th at Lake Maggiore, was enjoyed by around 225 and even the hour's rain could not dampen their spirits. W4PWB-Walt Wentworth, assisted by XYL, K4CSC-Edna, did a fine job of MCing and distributing the many fine prizes. W4LVV-Chuck Bolvin, S.E. Div. ARRL Director gave a very enlightening talk.

The Sarasota Radio Club has acquired a projector, which will help to make their meetings even more interesting than previously. They meet 3rd Tues. every month, 1st Fed. Savings & Loan Bldg., Sarasota.

It is with deep regret that we inform members of "Royal Order of Hoot Owls" that Hoot Owl #1-W7-YJE-Lee Singleterry became a Silent Key, May 24th, after a long illness. Our deepest sympathy goes to his XYL-Dorothy, who has helped him and carried on so valiantly.

WA4ILY-Claude "Pic" and XYL, WA4KYA - Vivian were all "a-dit-ter" at the SPARC Hamfest, as they were preparing to leave for a trip to California the next week.

Blanche Randles, former SPARC members, now living in Framingham, Mass.

There was much activity around the Suncoast area when hurricane "Abby" threatened to move in. WB4-CVU - Bob Boylston was, among those heard, on 2-meters checking and assisting in getting emergency equipment operating. Our thanks to all who give of their time so quickly and efficiently in preparation to help those in need during such times.

NOFARS NEWS

By Howard Kelley, K4DSN

For months now two things have occupied the minds of the membership of the Jacksonville club - securing a permanent club house, and Field Day. FD 1968 is behind us now and the club turned out in force to defend its title as the state's top station for the past two years. If W4IZ takes top honors in the state again this year, the Florida Skip FD trophy becomes NOFARS' property for keeps.

But the other project is far from over. Capitalizing on the fact that the city and county governments will be consolidating in the Fall, NOFARS is attempting to secure a surplus building to set up a club station to coordinate RACES and AREC activities as well as have a meeting place. City fathers are tentatively offering two sites. One of them the current home of the Jacksonville Signal Bureau which is located near the heart of the city and comes with basement bomb protection, parking lot and barbed wire fence. Another possibility would be the vacant studios of the city-owned radio station . . . about a block from the Signal Bureau.

The recently acquired RACES plan and an increase in the number of FM rigs on the air has caused talk to pickup of a VHF repeater. Jacksonville - like most other metropolitan areas - has fallen victim to the nationwide FM craze.

NOFARS as a club has a hobby within a hobby . . . yachting and sailing. Over a period of several

years, the club has been offering VHF communications to the local yacht club races and now it has gotten to be very much a part of the NOFARS activity. It's part of our public service role and is coordinated very closely with the AREC program.

GULFSTREAM SOCIETY OF AMATEUR RADIO

By Al Suhr, WB4AID

Big News - Frank Piverotto, WA4TBN, our Vice President - is now advanced class! It might be added that Frank is the product of instructional classes held by the society under the direction of Jim Johnson and Dick Kidder, WB4AKH.

We had some returning members recently, Stan Scalise, W4WZZ/5, was home for a weekend. During his attendance at the meeting of the society, Stan gave a most interesting account of some of the work he does as a physicist with Texas Instruments. Stan was the first educational chairman of the society - Also, the first teacher.

More recently Warren Little, WA4EFA, popped in from the University of Florida where he is in EE college. Warren was home only overnight for he was to return to Huntsville, Alabama for his next (second) tour as a participant in the cooperative education program. He is a senior.

Did you read in the newspaper that Governor Claude Kirk, during his recent tour of German-based GI's, greeted SP/4 Edward T. Wilder of West Palm Beach. Ed is WB4AIG and DL4QM - stationed somewhere in Germany. Member of our society, how about that? Ed was one of many enlisted men visited by the governor.

Floyd Jones, WA4IXS, is on the sick list. Getting better we understand. Floyd is our project committee chairman.

Sorry I missed last month. I just learned that a day is made up of 24 hours and not 26.

FLORIDORA NEWS

By Annette Thompson W4LKM

The Hamfest on May 19th at Lake Maggiore Park was attended by a number of Floridors. W4WPD - Shirley, W4BIL - Fran, K4WXS - Lee, and WA4KYA - Vivian won prizes. K4RHL - Ellie and W4QBY - Dorothea attended the YL International Sidebanders Convention in New Orleans the weekend of June 1st. Dorothea flew out early and had a visit with her daughter. Ellie contacted 41 countries during the YL International Sidebanders QSO Party.

W4UF - Dot has been working interesting DX and has added St. Helena, Farquhar, and Brunei to her country list. Dot and her OM are making plans for a vacation in a cabin in North Carolina for the month of July.

K4RNS - Marge won't want to leave her "estate" this summer, as they have installed airconditioning in their home and also in the birdhouse. Marge will be comfortable while she knits the "family heirloom" afghan she is making for her daughter.

W4WYR - Evelyn was elected President of Dade Radio Club. We are proud of you, Evelyn - have a good year.

W4BIL - Fran, and OM Bill, left June 4th with the hurricane! They and the camper were off to Denver

and the YLRL Convention on June 15th. W4BAV - Cathy and W4HRC - "Bo" will also attend. The latter, and her sister, will return from the convention via New Hampshire.

K4UIZ - Ev and OM Hal visited Marge and Jim in Holly Hills. They are pleased with their new Galaxy 500.

K4ZXS - Georgia's OM, K4NTB - Ken suffered a severe stroke the latter part of May and was flown to Bethesda Naval Hospital in Washington. Georgia has been in contact through various nets. Ken has all our best wishes.

W4OEP - Eula is visiting her sister in Pueblo, Colo. and hoped to be in Denver for the YLRL Convention.

IRARC NEWS

By Tom Walker W4EWB

A lot of activity sure has happened in just one month. Congratulations to Butch Fair K4SZC on his 30th birthday on May 19th. The merchants along Cocoa Beach surprised Butch with "Happy Birthday" greetings on a good number of the marquees along the "Strip." A surprise party was given the following Sunday by his mother, Marge. A very large number of his friends, hams and non-hams, came by to congratulate Butch, over 100 friends, both young and old. Happy Birthday Butch!

Congratulations are also in order for Dorsey Dean WA4RIA, who just received his WAC certificate.

It's that time of year again and already we have had one hurricane by the name of Abby to advance thru Florida and she sure did dump a lot of water over Central Florida. I wonder if the fire band is still on! Seriously, all hams should check their capabilities for emergency communications. The season has just started and it looks like it will be a wet and windy one.

Don't forget our two Nets for the I.R.A.R.C.: 3825KHz on Sunday morning at 0830 EDT for CW and 0900 for AM; and 146,502 MHz on Thursday evenings at 2000 EDT. A lot of the local boys seem to be getting interested in 2 meter FM around 146.940 KHz. I hear them but can't join in. Maybe some day I'll be able to. 73 S.T.

ORLANDO RAMBLINGS

By Hal, W4BKC

It could only happen in Orlando, "The Action Center of Fla." It seems that the State Tag Dept. has now gone into the business of issuing real rare DX calls, at least one local ham thinks so. For several years now Monty, K4VFW has duly



REV. LYNN WHITE W4CT of Tavares (winter) K4CC Harlan, Ky. (summer) sent us this photo. Rev. White received his first call in 1912. When the snows come to Harlan he heads for Tavares.

and correctly applied for and received a license tag for his car with his call thereon but not this year. When the plate arrived there it was indelibly stamped out - 4KVFV. Wonder how many people handled the plate without discovering the goof?

Looked it up in the Countries list - no 4K prefix. So here is a new prefix you DX hounds. Monty hopes they will give him another plate with correct call and let him keep this plate. It sure is a conversation piece.

Finally heard from Wes K4KRG, Barbara and Lou Ann for good measure. Seems like they really had Wes's nose to the proverbial grindstone since he arrived. Things are letting up a little. They found a nice brick house with a big basement whatever that is. Has a ham shack. Has been on the air-dipoles only at present. Hasn't been heard in Orlando yet. Keep trying Wes. One of the gang will hear you soon.

Present plans call for Field Day to be held at Bradley's Fish Camp - South on 15A, past Moss Park about a

mile and a half. Turn right on SR 530 and go about four miles to the Camp. Participate in BEBA this July fourth weekend. Maybe save a life.

SOUTH MIAMI RADIO CLUB

By George Henning, WN4JFA

At this writing FD is being planned by SMRC. We hope to have a full report for you next month.

At our last meeting we enjoyed a demonstration from two of Ma Bell's men on the laser and how it is used by the Military and the Civilian aspects. Next meeting we hope to have a film from ARRL on theory of SWR on transmission lines. Come on down and bring a friend, amateur or non-amateur. You can even bring your YF.

Remember we meet in the Industrial Arts Building on the south side of Ponce DeLeon Jr. High on the first and third Thursday at 8 p.m. sharp. See you there.


- SPEECH BLOTS -

REGARDS TO - only the singular form, regard, is used in the expressions in regard to, with regard to, without regard to. In this sense regard means respect or relation. Example: I have heard nothing further in regard to the matter.

A man cannot speak but he judges and reveals himself. With his will, or against his will, he draws a portrait to the eyes of others in every word he utters.

-Ralph Waldo Emerson

(Something we should think about each time we go on the air)



AMPHENOL AND HARD-TO-GET PARTS

BENDIX

CANNON SURPLUS GEAR IN ALL CONDITIONS

THE HAM SHACK

2211 N.W. 36th ST., MIAMI, FLORIDA / Phone NE 5-0378

- MIL SPEC CONNECTORS -

ORDER DIRECT FROM OUR HUGE WAREHOUSE STOCK

On Going To Sea...

By Jim Edris, WA4TBM

There has been a great deal of information passed out, both in the Press, and on the air recently about the need for Radio Operators for our Merchant Marine ships. Most of the information is correct, and if you know the score, can be taken advantage of.

The Radio Officers Union, room 1315, 225 West 34th St., New York, N.Y. 10001 advertises in all of the major amateur publications that they need a limited number of young men willing to train for the interesting and well-paid career of Radio Officer on US Flag Vessels.

The position of Radio Officer on an American Flag Vessel pays a base wage of about \$800 per month, plus many extras for endorsements, such as Radar, RTTY, SSB, etc. Vacation is accrued at the rate of 5 days monthly, and if you choose, it can be paid you in cash (if you don't want to take the time off). Any time spent in the war zone (where most all of the trips will take you presently) is at 100% bonus, or \$1600 per month. If you can hook up with the right company, and sign on for a guaranteed 18 months outside the confines of the US and its territories, all of your withheld taxes can be returned to you at the end of your 18 month cruise. Since Uncle Sam doesn't tax you while you are not in the U.S.

There is no age limit for the licensing arrangement for these jobs, but since the Union will undertake to train you, they would like you to be a "young man." They seem to think I qualify (age 36) so let that be a guideline to you!

You must have the following: FCC second class radiotelegraph ticket, or better, US Coast Guard Radio Officer's License, Merchant Mariner's Document, referred to as a "Z" card, and lots of patience.

The union requires that you pay \$70 dues quarterly plus \$40 yearly fight fund, and the initiation fee, which is not presently required, is \$2000 dollars.

Now to the nitty gritty. If you study hard for the exam, pass the code, and get your 2nd Class FCC license, but have not been to sea with it as radio officer, it will be necessary for you to have a letter of commitment for employment as a radio opera-



ALTHOUGH BILL HAUSER WA4ZSB of Miami has a handicap, he is not to be outdone in amateur radio. With this neat station he works the world. Bill says thanks to W4AAT and K4AXC of Miami Springs for their excellent help with antenna problems.

tor, or the US Coast Guard will not accept your application for the Mariner's Document or Radio Officer's license. Without a license, you can't get a job, so around and around you go, until someone, either a shipping company you have an in with or the union, if hard pressed, writes you a letter of commitment. In addition, you must have the following: birth certificate, six unmounted, dull finish photographs, 2 by 1-1/2 inches, two letters of recommendation from responsible past employees, and a US public Health Department first aid certificate, for which you must study and take a test that is very exhaustive.

When this is all completed, and sent off to Washington for the Coast Guard and FBI to work on, you have approximately five to six months of waiting to do.

Now to the present: Mr. Bill

Schuman, of the ARA told me in a telephone conversation on 4/22/68 that there is no active apprenticeship program in process, and that at present, there are no jobs available for men who have not gotten their six month endorsement by working six months at sea as assistant Radio Operator on a ship that carries more than one operator. It is necessary to have this endorsement to get a job on a ship that carries only one operator, and pays the above-mentioned wages. Second or assistant operator pays less, about \$600 month. If you have the six months endorsement, Mr. Schuman says, you still may have to wait as much as a year before the union finds you a ship.

The Radio Officers Union, on the other hand, if you don't have the six months endorsement, will sign you up to an iron-bound apprenticeship agreement that

forces you to either complete your apprenticeship period, or pay the union for all and any expenses incurred in getting you a ship and training you, and I am sure these could be large. Their apprenticeship agreement arranges for you to work on a multi-operator ship for the six months, at a pay scale of \$300 per month, with absolutely no other compensation, such as overtime, and the rest of the money you earn going to the Union. For the following 18 months, you will serve as sole operator on shipboard, and your pay will be \$500 per month for the first six months, \$575 per month for the following six months, and \$650 per month for the last six months, with the rest of your \$1100 to \$1300 going to the Union. During your first six months you will be eligible for none of the Union benefits, such as vacation time, welfare, or pension plans.

In summary, if you don't have the tickets, or don't have the six month's endorsement, don't quit your job and prepare to go to sea, as it could get real hungry around the house while you wait out the red tape and unions. I have had all the necessary papers since 3/8/68 and haven't had any success getting to sea, since I don't like the idea of working for two years for someone else and then being left ashore. The Military Sea Transport Service is a possibility, but they have had my application for over two months, and no answer or call to go to sea.

Now that you have the straight dope, I hope you still have the urge to travel as a radio officer. Doesn't ANYBODY need a radio operator? Call WA4TBM.



'SKIP'-eroo's

THE BRAIN DEPARTMENT

Unscramble each line of letters and insert them in order in the circled boxes and place in the box or boxes at the bottom the boxes to the left of them, to find the answer to this month's puzzle. Each line forms a common word, mostly electronic, which must be in the proper order to give the correct solution. Then unscramble the letters within

NO. 9 "USUALLY BEFORE THE END"



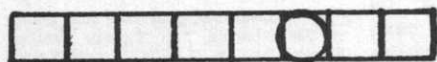
EIGHTVN



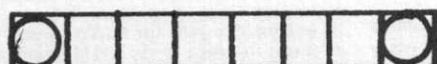
NIDIGWN



ECSENR



CIGULOPN



EIROTSRS



ADEGNG



SOLUTION TO NO. 8

POWER

FUSED

BRACKET

CAPACITOR

"Rag Chewer"

GRID

HENRY

Have you got a puzzle or a SKIP-eroo? If so, submit complete with solution to K4FQU, 1413 Davis Dr., Ft. Myers, Fla. 33901

— TRUE OR FALSE —

- | | |
|---|--|
| d.c. - direct current | K - thousand |
| d.p.d.t. - double pole double throw | kw. - kilowatt(s) |
| d.p.s.t. - double pole single throw | DXCC - DX Century Club |
| DX - distance | e.c.o. - electron coupled oscillator |
| EC - Emergency coordinator | e.m.f. - electro motive force |
| el. - element | FCC - Federal Communications Commission. |
| fax - facsimile | fil. - filament |
| FCDA - Federal Civil Defense Administration | gnd. - ground |
| FD. - Field day | h.f. - high frequency |
| F.M. - Frequency modulation | h.v. - high voltage |
| h. - henry | i.f. - intermediate frequency |
| htr. - heater | k.c. - kilocycles |
| hy. - henry | |

W4NUT

W4 iiD

— QSL-OF-THE-MONTH —

Four independent intermittent Dogs



Ted H. Smith

15 Park Circle, S.E.

Fort Walton Beach, Florida, U.S.A. 32548

TRUE STORY ABOUT HARRY...

About the year 1923 a very popular type of broadcast receiver was the "Three-dial Neutrodyne". One of the companies making and selling these was located in New York City and employed a Chief Engineer whom we shall call Harry because that was his name.

The 3 dial Neutrodynes were mostly alike as to circuit, two tuned RF stages, a detector and two transformer coupled audio stages using 5 type 20-A tubes whose 5 volt filaments were fed by a 6 volt storage battery and a rheostat reducing the 6 volts to 5. The sets of this story also had a panel voltmeter.

This outfit was running a production of several hundred sets a day with modern assembly line type of production and a final test position checking each unit on an antenna.

One day the final test began rejecting almost 50% of the production, much to Harry's consternation. But the trouble was soon located. The audio transformers were bought in lots of 10,000 from a Chicago manufacturer. They were in pressed steel covers and the terminals were marked P and S for primary and secondary. The latest batch of transformers had the terminals markings interchanged on about 50% of the units, resulting in weak or no audio according to whether one or two mis-marked transformers got into the set.

Harry, being a Ham of nearly 15 years experience even then, was not thrown by the problem. One of the 5 volt panel meters, a 22-1/2 volt "B" battery and a pair of test rods quickly located the mis-marked transformers, but there was 10,000 of them to be checked. About 4 intelligent girls were picked from the production line and equipped with the make-shift resistance checkers and the problem was solved but the story isn't over.

The company bought its meters from the Roller-Smith Instrument Co. who had a salesman named Charlie Kahant. Charlie was not the ordinary kind of salesman like we have now, he knew something about his product. On his next visit to Harry's office he noted the unusual use of his voltmeter and he asked if there would be any objection if Roller-Smith made use of the idea. Of course there was none.

Some weeks later there appeared on the market a device called an "Ohm-meter". It was a small metal case about the size of 2 packs of cigarettes, it had a 3 inch meter calibrated in ohms, a 1-1/2 volt flashlight battery inside and a pair of binding posts. The user to provide the test prods.

The idea was not patentable, of course. That method of measuring resistance was well known. The Roller-Smith Co. presented Mrs. Harry with a solid silver tea service and Harry got two Ohmmeters for free.

But Harry got a lot more than that. Being still alive and in contact with the Electronic Industry, he has the satisfaction of being there first, and not having to pay any income tax on the profits, which are large in ways not financial.

How do I know this story is true? Because I am Harry, who else?

Harry W. Dreyer, K4HEN
Charter Member OOTC #131

Box 52 Sugarloaf Shores Sta.
Key West, Fla. 33040

July 1968 FLORIDA SKIP/9

NET NEWS

FLORIDA RADIO TELETYPE NET

By Rex Peters, W4ZAG

The FATT (Florida Amateur Teletype Traffic) net has been in operation on 3704 KC for many years at seven p.m. every night. There are not very many stations checking into the net, and there is a great number that are just "short wave listeners" on this mode. That is not a good situation, as the full use of the amateur and his equipment is not utilized. Therefore fellows, please come and get your feet wet. Don't be ashamed of your typing speed, as the best way to improve that is to get on the air.

RTTY is one of the most accurate and speediest ways to handle traffic. But it seems that SSB and CW have taken over the Western Union and why not go them one better and take over the U.S. Mail, like sending a two-page letter to your mother or girl friend by amateur teletype; it is done by the armed services, and others. Maybe you would like to send a circuit diagram, or maybe your favorite pin-up picture. All of these are done by RTTY and more - like QSL cards.

It is a fascinating part of ham radio, and equipment is available at a price that you would pay for a good receiver, 73.
Rex Peters W4ZAG

FLAMINGO NET NEWS

By W4EDP

Things have been more or less normal with the net lately for some reason we can't exactly figure out. Must be the weather. At least since

the drought broke, we have had very few complaints about line noise. Except for W4GJ, Walt. In his neighborhood the power company had to change the routing of a high voltage feeder and where do you think they put it? You guessed it, right in front of his house. So far no problem, but wait till the dry season comes on. I feel sorry for the operator in the complaint department, especially if the band opens for DX.

Had a transmitter hunt again to straighten out the foulup that occurred on the one before, and Carl W4DTJ was the winner. It is not news when Carl wins a transmitter hunt, but we will report it anyway!

For the first time in several weeks we were able to hand out a Flamingo certificate in one sitting. The band was wide open to the West last Friday and K6DSB was made an honorary Flamingo in about 15 minutes. He was only running 80 watts, but was coming through here like gangbusters. During the day ten has been open very regularly to all DX spots, so get in on it if you can.

Come on up to 29.044 mcs at 730 Friday, we will be looking for you. 73 Jim.

TROPICAL PHONE TRAFFIC NET

By Ken W4SMK

The writer is red-faced since I missed the Skip deadline last month, and that's why no TPTN column. Sorry about that. This month (June) is election time for net manager. Please support the new net manager whoever he may be. I have had very good cooperation from members and net controls this past year.

We have all been saddened by the illness of Mary, XYL of W4BUG Chuck in Boca Raton.

WA4TWD has been having problems, technical and otherwise and had to drop out for awhile, but think he will be back with us full time soon.

WA4YIH, Don in W. Palm has stepped in to take the NCS job vacated by WA4TWD. WA4DEL Jim is back in Clearwater and will be helping out as NCS, also. We appreciate your assistance fellows. W4FCP had to drop out temporarily since this is his busy season in the woods and wilds of Sebring.

The number of stations checking in is still pretty good, but the traffic total was way down last month. To help keep up interest in the net how about beating the bushes for some traffic, or originating some yourself? If every net member originated just one message a month it would surely help the net total. No traffic leads to no check ins, etc. and it's a vicious circle.

Welcome to W4FJE, Mark, in Cocoa

who is with us as a regular once again.

Our sympathies to Jim W4VGE who's son drowned in a tragic accident at Camp Everglades. Regards, Ken

QFN REPORT



By Bob Blumberg
WA4OHO

A move to 40 meters for the early session has pumped new life into summer QFN. Statistics for May showed that 57 different stations checked in 573 times and handled 279 pieces of traffic for a rate of 0.2974 messages/minute.

Happenings among members this month: K4EHY is out of the Coast Guard and is relaxing and doing nothing. WB4DHZ has been busy recently with spring football training. W4UQZ has been doing a fine job as NCS and regional rep, along with W8BZY/4. WA4SCK is still the real iron man of the net, as he was top QNI, top 4RN and top RN5 in May. KZ5FX now provides a fairly regular Canal Zone outlet on the early 40 meter session. K4FQP is in the midst of building a new shack and should be on the air in full force soon.

The summer slump is approaching. QFN's move to 40 meters for the early session provides an opportunity for those without 80 meter cw antennas to check-in. The pace is usually a little slower in the summer, making this season an excellent time to join QFN and learn the ropes. QFN is very happy to welcome WB4FSF Bonnie as an active member.

Hope to see everyone on QFN soon, 7095 kc/s at 2230Z and 3651 kc at 0-200 Z daily.

FLORIDA MIDDAY TRAFFIC NET

By Herb, W4LSR

Our deepest sympathy to Jim, W4VGE and his family in the loss of their beloved son. Jim had been moving his rig to the new office when tragedy struck.

We all missed Charlie, W4AKB during his absence. It is good to hear you again Carlos. Herb, K4DAX plans to go away again. Hurry back namesake, Mack, W4DVR had a short stay in the hospital with back trouble. Joe, WA4FGH has gone on an extended trip but not on LSD. Ed, W4KHY and Dick, K4LEC are planning June vacation trips. Don't forget the pills Ed, Ted, WB4FLW is doing real well with his new homebrew transmatch and long-wire. This must be the busy season for Bruce, WA4YII as we seldom hear him these days. Welcome to George, W4MZU my new alternate in Orlando, to Bonnie, WB4FSF in Sanford and to Dave, WB4HQX in Daytona who all joined our ranks in May. Melba, W4GAN in Tallahassee will pass Georgia traffic direct. We are waiting to hear the new "arrival" text that I.J. will be using when the new Orlando Naval Training Center opens in July.

It is interesting to note that many of the Florida Top Twenty Traffic Takers are on the FMTN roster and many of the others check in when they have traffic to move. Anyone who wishes to learn from these experts is welcome to join the FMTN. Send a formal message to our Net Manager Clyde, W4SDR in Daytona asking to be placed on the roll. State your "handle", call sign and QTH and what days of the week you will be available. We meet at High Noon (1200 EDT) every day but Sunday on 7230 kh.

FMTN held 26 sessions in May. 613 stations handled 230 messages with an average QNI of 23.6 and an average QTC of 12.3.

TOP TWENTY TRAFFIC TAKERS

Each month we are happy to list the top twenty traffic takers in Florida. Next month we hope to see your call here.

1. WA4SCK BPL	634	11. W4SMK	66
2. WA4NEV	341	12. W4FP	59
3. WA4FGH	270	13. WB4GYX	56
4. W4ILE	174	14. WA4OHO	53
5. W4FPC	141	15. WB4FLW	53
6. W4SDR	139	16. K4LEC	52
7. WB4DHZ	126	17. WA4NBE	50
8. W8BZY/4	98	18. WA4HED	48
9. W4UQZ	82	19. W4YPX	47
10. K4DAX	82	20. W4ZAK	47

TRAFFIC HOUNDS

By Jesse H. Morris, W4MVB

NET	QNI	QTC	AVG. QTC	SES
QFN	573	279	4.5	62
GN	138	75	2.4	31
FATT	99	23	0.7	31
TPTN	720	137	5.1	27
FPTN	477	135	5.0	27
FMTN	613	320	12.3	26
FAST	787	151	5.6	27
WFPN	563	100	---	31

OLDEST PHONE NET
ON AIR

KNIGHTS of KILOCYCLE

SUNDAYS
3910

7:30 A.M. Nov. to April
7:00 A.M. April to Nov.

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ARE YOU GETTING
THE MESSAGE?

Whisperings From Assistant SEC

Tom Chisholm W4FP/A4FP

The importance of close co-operation and understanding with Red Cross was quite evident during the tornado disasters in Iowa, Arkansas, Illinois, Missouri and Indiana where at least 79 deaths and more than 1000 injuries was the sad fate of these States. Red Cross was quick to enlist the help of many ARPSC units to handle ARL 4's and ARL 19's in and out of Florida to the disaster areas.

The city of Jonesboro, Arkansas with 33 deaths and over 300 injuries was hard put for communications with 1 or possibly 2 amateur stations operating in that city. To these stations our compliments for

a superb round the clock performance. Many of our Florida stations did their full share of service for their respective Red Cross Chapters via our NTS nets as well as on the various MARS nets.

At this writing I have little information on ARPSC activity during Abby. Many stations were on the job in their local areas as well as on the state-wide nets. The usual vigil of the FSBEN guarding and handling traffic on 3940 was in evidence.

Red Cross as well as other traffic was handled smoothly, and in many of the threatened areas, radio communications were set up at Red Cross and

CD headquarters.

All those who served, whether on a field active basis or on a standby, including any traffic relating to the western tornados should report activity to their EC. If you don't have an EC in your county mail same to W4FP.

The DISASTER MANUAL of the Red Cross, page 16 sect. 3.15 p (3) instructs all Red Cross Chapter disaster committees to include an OFFICER OF THE ARRL. Hence it is no accident that all Red Cross Chapters strive to have ARRL representation, in fact it is mandatory, and usually the EC or an assistant EC if there are a number of chapters in the county.

If any EC has not contacted his Red Cross Chapters lately, I suggest he do so, as quite frequently Red Cross Executive

Directors are changed or transferred, and the new officer may not be familiar with the ARRL communications chairman.

Pinellas county has a new EC, WA4BGW Alfred E. Friend. Welcome to the club of vanishing members Al, and good luck in what appears to be a great challenge and a thankless job, but very important if amateur radio is to survive in the future.


Sumpter county loses EC WA-4TJS A ch Bruce who has moved to Lake Wales and has been appointed an assistant EC for Polk County in general, and Lake Wales in particular. 73 TOM

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Pres. W4BAV Sec. W4EHN V. P. WA4BMC Treas. K4WXS

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(AROUND THE CLOCK)

W3ADK W3USG
W3BWH W8DUX
W3MMG WA3CHB

AAA's BEBA NET

(Continued from Page 1)

tem. But you should know who and where they are.

You should determine what July Fourth events will be held in your area (we have some information from Chambers of Commerce), find out the attendance, get the names of any contest winners and facts about them (name, age, hometown, etc.)

Determine any check points available in your area where a tabulation of traffic is made. Examples: toll bridges, welcome stations. Try to find comparisons with July 4th traffic a year ago. See how it has increased or decreased.

On weather, determine any record highs, extreme conditions of any kind, especially as the weather bears directly on holiday activities, i.e., showers chasing bathers from the beach, ruining backyard barbecues, squalls endangering boaters.

Make a phone check of fishing camps to see if there are any unusual catches reported, golf courses to see if unusually crowded, private parks. Where there are sanctioned tournaments in golf, tennis, or more than restricted local interest, get winners names and scores, if good.

If there are major tourist attractions in your area, see what attendance is from the manager or PR man. (Make sure you can rely on it!) Get comparison with last year, if possible. Call beforehand and alert them. Any celebrities visits there, find out who, what they said about it, etc. What else they're doing.

Check key Chamber of Commerce or motel/hotel sources to determine how heavy tourist traffic is, 50%, 85%? No Vacancy? How far need to travel to nearest availabilities.

Remember the words: "human interest." Look for the unusual, the amusing, the offbeat. Facts are the meat of the Holiday News Service; human interest, the dessert. Things that will interest you probably will interest others. Don't think anything is too silly or insignificant to report . . . if it caught your attention.

Above all, take nothing for granted. Don't assume, make sure of your facts. - Good Luck.

PLEASE GET YOUR
F.D. SCORES IN
ASAP.

ALL LOGS TO ARRL
WHO WILL WIN OUR
TROPHIES THIS YEAR?

12/FLORIDA SKIP July 1968



ARMY MARS

by Joseph C. Patterson,
AD4TZI

Again members of Florida District Two, Third Army MARS, have demonstrated their dedication and responsibility. On June 3, at 1900 hours GMT, as soon as hurricane Abbey showed signs of becoming a threat to Florida, the Florida Two Emergency Net was activated with all regular nets discontinued for the duration of the emergency.

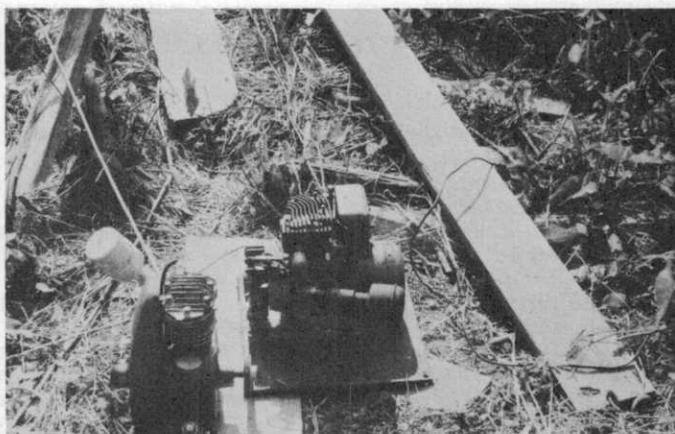
Volunteer net control stations, taking over from hour to hour, operated around the clock. Net control and other operators, manning their consoles through electrical storms and other difficulties, stood by, prepared to handle distress messages and other emergency traffic to and from storm-affected areas.

Occasions such as these prove the real value of Army MARS membership and training. They also demonstrate to a sometimes skeptical public that Army MARS is much more than just an interesting hobby to wile away idle time.

Florida District Two welcomes as new members: Kenneth J. Arnold, AD4TUZ, 4007 Wallace Ave., Tampa, Fla., 33611; Lee L. Kanarian, AA4-WXS, 461 Pinellas Way South, St. Petersburg, Fla., 33707; Alfred C. Weed, Jr., A4DJ, 330 Harwood Ave., Satellite Beach, Fla., 32935.

A new two-letter call has been issued to Edwin M. Han-num, 100 Terry St., Indian Harbor Beach, Fla., 32937. Ed's former call sign was AA4DGL. His new call is A4EY.

By now, all members of Third Army MARS should have received their new Sig. 81 cards. These new cards are salmon pink in color to distinguish them from the old ones which are obsolete and are to be destroyed. If for any reason you have not received your supply of the new Sig. 81 cards, mail a postal card to Wade L. Nelms, MARS Director, Third US Army, Fort McPherson, Ga., 30330, and tell him so.



DID YOU HAVE TROUBLE with your Field Day generator? This one belongs to W4WHK/4 near Jacksonville and blew up. Oh well, there is always next year -- we hope. Have you sent us your FD scores yet? Hurry!!!

ARRL BOARD MEETING

(Continued from Page 1)

that there will be no report for the next Board Meeting, but there will be one for the 1970 session. It will concern itself with many things such as the special KP4 band segment (which may be an 'all off-shore' segment), relocation of Novices from 21 to 28, expansion of phone frequencies, usage of reserved frequencies by Advanced and Extra Class, etc. etc. It will probably follow along the lines of the 160 meter survey which resulted in expanded 160 meter frequencies and power effective July 1.

Perhaps one of the most innocuous appearing items could turn out to be a real hooker. A committee was authorized to review the entire field organization, both administrative and elective to determine just what is needed to improve the situation. It is recognized that a great number of members don't really identify themselves as a part of the League -- far too many. This committee could end up recommending sweeping changes -- but a lot of this will depend on how much interest is generated by the members' suggestions -- here's your chance to get in some effective talk.

The "outgoing QSL Bureau": Like motherhood and low taxes, everyone seemed to be for it until the discussion got down to birth pains and cost. Some of the legal aspects began to appear insurmountable (yes, we know there are some 'bureaus' operating with no apparent trouble. It's something like a small time bookie -- no problem until he decides to expand the operation -- then it's 'look out! the fuzz!'). Then someone

began figuring costs on handling a million and a quarter cards per year -- yikes! It went back to a "study" status. It may still come, eventually, -- maybe. Just don't hold your breath.

"Operation Retread" hopefully will make the grade with the FCC, allowing former Novices one more chance, this time for two years. Maybe some "old timers" who have been out of ham radio for a long, long time will get a chance to come back via the Novice route. Technicians who have never held a Novice ticket can already make a bid for the Novice ticket, per a ruling recently by the FCC, subsequent to the Board Meeting (originally, this was part of Retread).

There were quite a few other items, mostly minor, which only caused minor wrangles: 25 and 50 year membership awards, publications on FM and "ham radio for the teenager," Five Band DXCC Award (there's a doozy for the DXer -- a "start from scratch, everybody even at the starting line, 500 cards to accumulate" operation. Should keep the DXers busy for two or three years at least and except for a big flurry at the start, practically depopulate 14 M. C. Bet someone comes up with a practical 80 meter beam as a result!)

Anyway, it was 3 PM on Saturday before the gavel fell. You can bet that next year the preliminary sessions will start no later than Thursday morning, bright and early -- in New Orleans!

73

C.J. (Chuck) Bolvin, W4LVV
Director, Southeast Division



Florida SKIP DIRECTORY

Each month you will find the following listings. Keep it handy. ARRL Officials are listed free. Florida Nets are listed free upon notification from net manager. Clubs listed for \$12.00 per year. (Free to clubs taking box ads elsewhere.) Any individual amateur may be listed for \$5.00 a year. (The ones who really care.) Let's fill up this page!

ARRL LISTINGS

Director, S.E. Division
CHARLES BOLVIN W4LVV
2210 S.W. 27th Lane
Miami, Florida 33133

Vice Director, S.E. Div.
A. L. HAMEL, K4SJH
220 N.E. 25th Street
Pompano Beach, Fla. 33064

SCM E. Florida
JESSE MORRIS, W4MVB
P.O. Box 1241
Jacksonville Beach
Florida 32051

SCM W. Florida
FRANK M. BUTLER, Jr. W4RKH
323 Elliott Rd., S.E.
Ft. Walton Beach, Fla. 32548

SEC East Florida
ANDY CLARK, W4IYT
41 Lenape Drive
Miami Springs, Fla. 33166

SEC West Florida
G.D. McKECHNIE, W4IKB
1000 N. 6th Street
Chipley, Florida 32428

Asst. SEC East Florida
TOM CHISHOLM, W4FP
P.O. Box 2273
Lakeland, Florida 33803

Asst. SCM
WILLIAM G. BLASINGAME
W4ANEV
716 Magnolia Street
Neptune Beach, Fla. 32050

NET LISTINGS

QFN (all Florida)
Daily 2330 & 0300Z
3651 kc. Net Managers
W4BVE/ W440H0

FSBA Sundays
2200Z on 3940 kc.

FSBEN Thursday
0030Z on 3940 kc.
KNIGHTS OF KILOCYCLE,
Sundays,
1200Z on 3910 kc.

GATOR NET (GN)
Daily 1330 on 3651 kc

and 1630 on 7115 kc
Net Manager: K4C00
SATN South Atlantic Traffic Net
Mon. - Sat. at 0330z on 3945 kc.
Net Manager WB4DSP

TROPICAL PHONE TRAFFIC
'NET (TPTN)

Daily except Sunday, 2200Z on
3945 kc.
Net Manager: W4SMK

FLA. AMATEUR SIDEBAND
TRAFFIC NET

(FAST) Daily except Sat.
2300Z on 3940 kc.
Net Manager: WA4NBE

WEST FLORIDA PHONE NET
(WFPN)
Daily 2300Z on 3957 kc.
Net Manager: WA4ZGI

FLA. PHONE TRAFFIC
NET Mon. Thru Sat.,
1200Z on 3945 kc. Net
Mgr: WA4CIQ

NOVICE HURRICANE
NET (NHN) Sat. & Sun.
at 1930Z on 7165 kc.
Net Manager: WA4YAK

GOLD COAST EMERGENCY
NET
6 Mtrs. 50.445 mc Mon. 2000 local
2 Mtrs. 145.23 mc Tues. 2000 local
WB4CKY, EC Broward Co., Mgr.

FLA. MIDDAY TRAFFIC NET
Daily except Sun. at 12 noon
EDT on 7230 Kh. Net Mgr. W4SDR

INDIVIDUAL LISTINGS

"SLIM" and BERTHA EGGERT
WA4AZZ/WA4BMC
1510-17th Avenue-North
Lake Worth, Florida 33460
Regards to all our friends.

CLUB LISTING

DADE RADIO CLUB, INC.
(W4NVU) 1st & 3rd Tuesday,
Museum of Science
3280 So. Miami Avenue
Miami, Florida
Mailing address: P.O. Box 73
Biscayne Annex
Miami, Florida 33152

Receives Award

Many of the 75 meter Florida amateurs will be happy to hear Elliott Barta, W4SCY of St. Cloud received a special state safety award.

The award was presented to Bart at a Kiwanis Club dinner May 15th by Sgt. Jim Humphries which was ordered by Col. H. N. Kirkman, State Safety Director. The Citation read: Florida Department of Public Safety - Division of Florida Highway Patrol.

"Certificate of Meritorious Service, presented to Elliott Barta, in recognition of outstanding effort to preserve human life on Florida's streets and highways, by promoting safe driving through important participation in traffic safety educational programs with the Florida Highway Patrol... Congratulations to W4SCY."

NORTH FLORIDA AMATEUR
RADIO SOCIETY W4IZ
2nd Thursday, 7:30 P.M.
Duval CD Headquarters
107 Market Street
Jacksonville, Fla. 32202

ST. PETERSBURG AMATEUR
RADIO CLUB, Inc. W4GAC
Meetings: 1st Friday
FPC Lineman's Assembly Hall,
25th St. & 25th Ave., N.
Mailing Address: P.O. Box 4026
For information phone:
544-1856 or 526-6731

ORLANDO AMATEUR RADIO
CLUB, INC. - W4PLB -
2nd Tuesday every month, 8p.m.
Red Cross Bldg., Central & Bumby
Mailing Address: Box 13267
Orlando, Fl a. 32809
2 Meter Net - 145.350 MHZ
Mon. thru Thurs. 7:00 p.m.
For information phone 644-9896

FLORIDORA YLs (W4FE)
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to join.
Mailing address:
Pres. Shirley Hill, W4WPD
1710 Lambright,
Tampa, Fla. 33610
Nets: Tues. 1400Z on 3933 &
Sun. 1900Z on 7275 kc/s.

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DIO SOCIETY, K4DPZ 1st Tues.
8:00 pm, Alachua CD Head-
quarters Basement, County
Court House. Mailing Ad-
dress: 1421 SW 13th Ave.,
Gainesville, Fla. 32601.

TAMPA AMATEUR RADIO
CLUB, Inc. W4DUG
Meetings: 1st & 3rd Mondays
7:30 P.M.
Club House: Davis Islands, Col-
umbus & Barbados
Mailing Address: 943 Cimmeron
Ave., Tampa, Fla. 33603



By AFB4JTK / AFC4BND

At the meeting in Winter Haven last May 26, there were about 50 members present. The SMD, Herman Schenck did a fine thing. At 12 noon, the events of the day got under way. AFA4GT, Frank Shannon (ASAF Ret.), was the security officer. Of course, there was coffee and, supplied by the gracious host, Carl Stowe, AFB4-LQE. There were no mishaps or unhappy individuals at the meeting. The rain did slow down the people a little but not for long. About 51 of the new Florida Newsletters were given out to those attending. Thanks, Carl and Herman for a fine day.

The phone patch traffic was about the same as last month and is giving the A.F. Mars program a very fine name. We pass more traffic than any other comparable program. Let's keep up the good work. Added to the phone patch traffic, the local nets are pretty busy also. We are getting more and more new members each month. A new addition to the Transcon system is AF4PWC of Miami. I'm sure that Bob will assist the TCONnets in a very needed area.

We want to welcome AFB4-UHP, Herb and AFB4UCV, John to the VHF system in Miami. Herb will operate on 6 meters for now and John will operate 6 and soon area net. A new member of 2 meters is AFA4-UGC, Richard of Miami. We want all the new and future members to feel free to let us know that there is a column here for them and all members of AF MARS.

We are very proud to have been mentioned in the weekly air broadcast from HQ MARS. Thanks up there from us down here.

One little item about the new frequency that the Area net has adopted. Some have found it to be much better than the former frequency and some have no opinion but the new frequency will assist all in getting through better. 73.

July 1968 FLORIDA SKIP/13

LETTERS TO EDITOR

(Continued from Page 2)

and qualify for different types of electronic equipment, suitable for use on the ham bands. And that is their only reason to be MARS members.

I believe if someone is going to participate in a voluntary program then he should abide by the established rules of operating procedure.

I do not intend to imply that the operator when he participates in the MARS program, has no ability to offer criticism and suggest to the controlling "powers" constructive changes to the system.

But, to attack the basic principle of the organization — the principle of using Military procedure in radio operation (and to me Military procedure is STRICT Military discipline) that is intolerable.

Maybe that reflects upon the competence of those complaining about Military Procedure.

73

John Deegan SN, USNR, WA4QLZ
Active duty USN San Diego, California

To The Editor:

I wish to thank you for publishing my recent letter regarding Florida Navy MARS policy program. I wish to also thank all of you that took the time to send in cards and letters expressing your views. I have apparently opened "Pandora's Box" for sure, and if the replies are any indication "Florida Navy MARS" has a very bad or perhaps I should say high "SWR."

For those of you that expressed concern about the phrase "local level", if you have a voice in policy then it would apply to you. Just learn to say "no."

Again thank you all.

Sincerely yours,
George M. Hunt
P.O. Box "N"
Fort Lauderdale, Florida
33315
N0HXH

I have received a copy of your MAY 1968 issue. A letter by Mr. George M. Hunt, in your "Letters to Editor" column was brought to my attention.

While I must concur with Mr. Hunt's privilege to write such letters, and with your right to print them, I must insist upon my prerogative to disagree and offer a vigorous rebuttal.

In his letter, Mr. Hunt refers to "the local level (Florida)". This would tend to condemn a large segment of the Florida MARS fraternity unfairly, as the State of Florida, due to its impact

ed Navy MARS population, is divided into three Areas. Each Area is more or less autonomous with its own "local" administration. The Areas are South Florida, Northeast Florida, and Northwest Florida. Mr. Hunt has seen fit to take Northeast Florida and Northwest Florida to task even though he is not a part of those two "local" organizations.

The letter further states that stations were assigned a certain night of the week to meet the RATT facilities, and this was due to the fact that the Net Control Station could not cope with the crowd. The South Florida Area has a large traffic load coming from servicemen in Viet Nam. If the NCS spends his allotted time checking in stations, he would not get much traffic passed. Further, many of our members prefer an assigned night rather than accept a haphazard routing system and/or feel that they were tied down seven nights a week. Also, you will note that by assigning personnel to a specific night of the week, you soon will discourage a "traffic hog."

In reading on, we find that Mr. Hunt was not consulted about frequency allocations. Everyone knows that there is a dire shortage of frequencies for all users, and the Navy is no different than the other users. Navy MARS is a world-wide organization, and our frequencies must come from the assignments made to the "Regular" Navy. It would be ridiculous to assume that the U.S. Navy is going to stand by while we communicate on the prime frequencies at the prime times. We cannot get together and vote ourselves a frequency, we have to share with MARS the world over, and do the best we can, with what we have. Incidentally, we do have the right to complain, and many of us do — continually.

Further on in his letter, Mr. Hunt appears to resent training in the phonetic alphabet. The Navy, and all services I assume, are set up to provide an emergency back-up system for the "Mother" service. Many years of operation have borne out the fact that uniformity in operating procedure is to be desired. It expedites the function of a net, regardless of mode, and simplifies the operation for all concerned. Yes, we use phonetics, we teach phonetics, and we will continue to do so. Stations are instructed to use phonetics when signals are marginal, or in spelling out unusual names, places, and things.

Let us now consider the paragraph which says "They can you into 'joining' promising great benefits" and etc. First, it is the policy, within the SIXTH Navy MARS District, to promise a new member absolutely nothing in the way of equipment. Our only

"Benefits", are eligibility for some excellent correspondence courses, some wonderful fellowship with other dedicated members, and the deep personal satisfaction of knowing that some fellow in Viet Nam was able to get word to his loved ones that at a certain time and date, he was alive and well. I don't know who Mr. Hunt refers to as "Local Level" who must be invited for the week-end, have dinner, etc., but I am acquainted with several of our people in the South Florida Area, and to this I say poppycock! However, should Mr. Hunt have definite proof of this, I would appreciate the facts from him.

Yes, Mr. Hunt has sent gear to "far off states." I am involved in this one. A member in South Florida, thinking at the time that he was doing me a favor, arranged for Mr. Hunt to provide me with a RATT terminal unit. There was no cost involved as the District Director picked it up in Fort Lauderdale, and brought it to Tennessee. I requested that the person arranging the "loan" express my deep appreciation to Mr. Hunt. Incidentally, I was also informed that should I, after using the item, decide I wanted it, the price was around \$30.00. To keep down false accusations, this unit is being shipped to Mr. Hunt from Harriman, Tennessee by Railway Express at my expense.

Finally, I cannot concur that Navy MARS has displayed any "lack of confidence in the whole civilian part of the program." The present Chief, Navy MARS (Acting) is a civilian. There is only one paid Navy man assigned solely to Navy MARS in the entire SIXTH Navy MARS District, and he is our Director. Each of our ten Areas are governed by civilian volunteers and their staffs. Myself, a civilian, act as Director in the absence of the "Chief", and believe me, I can, and do, make a few decisions, as do all of our volunteer officeholders from time to time. It might be interesting to note that out of 9000 MARS members, there are only 10 paid Navy billets, and at least one of these is manned by a civilian.

Hopefully, you will see fit to print this letter. It won't change any of the preconceived notions formed by Mr. Hunt's letter, but it could serve to point out that things in Navy MARS are not as bad as Mr. Hunt has led the amateurs in the great State of Florida to believe.

Richard A. Crowell
SIXTH NAVY MARS DISTRICT
Office of the District Coordinator
803 Oak Plaza Road
Kingston, Tenn. 37763

Editor:

As our QTH is a long way from Florida by highway, we are only a turn of a dial from there by radio.

We enjoy reading FLORIDA SKIP as well as seeing the names and pictures of operators we work in Florida. Seems to make our QSO's more enjoyable. 73

Olus Embry WA0KXD
Canon City, Colo.

Up Five

Night after night it happens. The net gets going and then: up 5, down 15, up 10, they jump on their kilocycles and off they go. Seldom do they look where they leap. They just drop right smack dab in the middle of another net or someone else's QSO. You wonder why some nets can't get along and some people don't like nets?

In my book this is simply—THOUGHTLESS, STUPID, AND IGNORANT operating.

My suggestion to you net managers is to move around and observe what your boys are doing. Then call a session and get them back in line. It sure will be appreciated by all. Incidentally, it will do no good to generalize, give the circumstance and the call. If the guy can't take it let him move out—you're better off without him.

ONYX

Don't Cause an IRC Log-jam

By Howard Kelley, K4DSN

Hams often use a paper clip to secure IRC's to QSL cards that are sent in envelopes. Although this is not a bad habit, since it prevents the flimsy slips of paper from getting lost, the paper clips are often responsible for jamming stamp canceling machines.

The trick is to make sure the paper clipped IRC's are attached to the bottom edge of the QSL card then inserted into the envelope. Frequently the high-speed canceling machines tear and rip the envelopes and contents when they encounter a paper clip at stamp level.

Silent Keys

We are deeply sorry to report the passing of the following Florida amateurs:

WA4DED—Rev. F.L. Ludwig, Marianna.

WA4JLL—Lloyd Ladell, Pinellas Park

K4LHD—A. J. Vanacore, Ft. Myers

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HAMBAR services of radio equipment ONLY will be available to all our subscribers, amateurs or non-amateur, at a donation rate of 25¢ or more for ten (10) lines and 5¢ a word thereafter. There are approximately seven words to a line. Space permits only one ad per month please.

Non-subscribers rate is \$1.00 for ten lines and 5¢ each additional word.

To Commercial Business: Classified, undisplayed - 50¢ per line; Illustrative or General Display with border - \$3.50 min., \$60/page; Initial cost of cuts, additional. Cuts furnished, no charge. Deadline 10th of month.

An Advertising inch is measured 7/8" vertically on one column, i.e., 4 columns - 40 column inches to a page. Rate card by column inch supplied upon request. FLORIDA SKIP, Advertising Department, P. O. Box 501, Miami Springs, Fla. 33166.

KWM-1 Collins Transceiver, new condition \$295.00. Call ARC Miami, 374-4101.

FOR SALE: Immaculate KWM-2, 516-F-2, Sn. 12755, \$750.00; 30L-1 Linear amplifier \$350.00 - package price \$1,000.00. John Fearon W4WKP, 4165 Club Dr., N.E., Atlanta, Ga. 30319.

75A-4 Collins Receiver, late serial, very clean. \$395.00. Call ARC Miami 374-4101.

WANTED: Heathkit SB-200 Linear amplifier. C.J. Scribner W4WBW, 23 Magnolia Dr., Mary Esther, Fla. 32569. Phone 904-243-8748.

75S-3 Collins receiver, 200 cycle CW filter, \$375.00. Call ARC Miami 374-4101.

FOR SALE: Hallicrafters model SR-160 with a.c. power supply model PS 150-120. Mint condition \$175.00. Bob Freitag W4FH, c/o P.O. Box 770, Delray Beach, Fla. 33444. Phone 278-2821. (paid adv.)

DC-3 Drake 12V power supply like new \$100.00. Call ARC Miami 374-4101.

WANTED: Crank up, tilt over, galvanized tower. C.E. Montross WB4DRL, 3324 Mayflower St., Sarasota, Fla. 33581. Phone 924-2223.

G-50 GONSET, 6 meter transceiver \$149. Call ARC Miami 374-4101.

FOR SALE: Beam 4-element Hornet model TB-1000-\$45.00 (want a quad). Pick up only. Also Q5'er, BC453-B 190-550 kc (no bottom plate) \$5.00. ARC-5 T-19 3 to 4 mc transmitter unmodified \$5.00. 80-40 meter c.w. transceiver built by W6BLZ with antenna (CQ Nov. 64) \$25.00. Pick up please. H.G. Rice W4FOM, 930 Crosby Dr., Dunedin, Fla. 33528. Phone 733-6633.

DX60B Heath, transmitter, like new \$75.00. Call ARC, Miami 374-4101.

WANTED: All Field Day scores in Florida. Club and non-club. Send logs to ARRL. Send only score, number transmitters, location, club name, etc. We have some nice trophies waiting for the winners. SKIPPER, Box 501, Miami Springs, Fla. 33166.

TREMENDOUS YEAR END SALE. AMATEUR-WHOLESALE ELECTRONICS (Div. of Int'l. Electronic Systems, Inc.), 280 Aragon Ave., Coral Gables, Florida 33134, phone: 305-444-6206. Franchised distributor and service agency for Collins, Hallicrafters, Swan, Drake, National, Hy-Gain, Mosley, Hammarlund, BTI, Ameco, E-Z Way Towers, etc. Compare our prices with anyone. New Swan 500C and AC \$519. New Swan 350C and AC \$420. New Hallicrafters SR400 and P.S. 500 AC \$775. New Drake R4B \$374. New Drake T4XB \$374. New BTI LK-2000 Linear \$705. New Ham-M Rotors \$99. All equipment factory fresh, factory sealed cartons. General Electric and American Express credit available on all purchases of new or used equipment. 10% or trade-in down. Used Ameco CN-50W6 mtr conv. \$1950. Collins 75A-4 \$395, 75S-1 and Drake QX'er \$265, KWS-1 \$375, 516E-1 12V-DC \$125, 516E-2 28V-DC \$99, National NCX-5 Mk II and AC \$475, NC-303 \$189, NC-270 \$95, Swan 250 \$245, 500C and AC \$445, 240 and DC \$195, 350 (late) \$285 Mk I Linear \$375. WRL Duo-Bander and AC \$145. LA-1 Linear \$59, Drake 2B, 2BQ, 2AC and Cal. \$195, T-4X \$265, R-4A \$265, R-4 \$245, L-4 Linear \$485, DC-3 (DC) \$95. B&W 5100 and 51SB \$135. Hallicrafters SX-99 and Speaker \$89, SX-100 \$129, SX-115 and speaker \$349, SX-146 and 3 filers and xtal cal. \$185. Multi-Elmac AF-68A and M1070 AC-DC \$115. Linear Systems 250-12DC \$45. Heath Seneca and Elco 730 Mod. \$125. Pawnee HW-20 (2 mtr) \$135. Gonset G-76 and AC, Communicator VFO \$125. G-63 \$75. Galaxy V & AC & Cal. \$375. Knight TR-106 & V107 VFO (6 mtrs) \$119. Johnson Matchbox 250-31 \$45. Millen 90651 GDO \$49. Sprague KT-1 capacitor checker \$15. Concord MTC-12 TV Camera \$225. Stoner RT-1 RTTY converter \$89. Hammarlund HQ-170 VHF \$225. NO ONE anywhere will beat our price. DISCOUNT PRICES. We will top any advertised or written price from any other dealer. We trade on both new and used equipment and we service what we sell. COMING SOON - our new Orlando Store and our new Miami North Store. John W. Gregory, K4OCK, President.

FOR SALE: Johnson Pacemaker \$90. NC-300 \$90.00. Mosley 14AVQ Vert \$30.00, like new. Roy W4ITO, 5527 SW 8th St., Miami, Fla. 33134. MO 1-4405 Evenings or 661-0823 days.

HG-10 Heath V.F.O. like new \$32.00. Call ARC Miami 374-4101.

FOR SALE: COLLINS 75A1 with manual and 100 kc calib. neat, good condition. Rafael M. Estevez WA4ZZG, P.O. Box 2442, Hialeah, Fla. 33012.

HA-350 Lafayette Receiver, very clean \$69.50. Call ARC 374-4101.

FOR SALE: A complete mobile unit. 1960 Mercedes Benz 220 S.E. convertible, 80,000 miles and in mint condition, complete with KWM-2 and the following: Collins mobile mount, noise blander, 12 v. power supply, 35 amp. alternator, SWR bridge, and Hustler 10-80 antenna - - Installed! Also included is Collins 110 v. power supply and KWM-2 carrying case. Both car and equipment are in excellent condition. Package deal \$2,400.00. Fulton Rindge WA4RLH, 280 Harbor Dr., Key Biscayne, FL. Phone EMI-2787. (paid adv.)

TUBES, We stock a full line of RCA, Sylvania etc., less 50% discount to all amateurs. Call ARC, Miami 374-4101.

Keeping your eye too closely on the future may obscure present opportunities.

HUSTLER, We have a complete stock of New -Tronics Hustler Antennas. Call ARC, Miami 374-4101.

You've got to know a lot before you know how little you know. Salada

We accept used Amateur gear on consignment, if you can't sell it bring it to us. Amateur Radio Center, Miami.

FOR SALE: Drake 2-B and speaker \$165.00. Ameco TX-62 transmitter (6 and 2 meters) with VFO 621 both \$125.00. Globe chief model 90 transmitter \$20.00. Frank J. Shannon Sr., K4GT, 140 Bosphorus Ave., Tampa, FL 33606.

RV-4 Mosley, 10 thru 40 vertical \$9.95. Call ARC 374-4101.

WANTED TO BUY: Johnson 275 watt "Matchbox." Bill Thomas W4CC, 8642 Beacon St., Fort Myers, FL. 33901.

Crystals, Petersen, amateur bands, new \$2.50. Call ARC 374-4101.

WANTED: Manual for World Laboratories VFO 755-A. Willing to buy or pay for the use of same for a few days time. Edwin C. Peckham W4DSD, 344 SE 11th Ave., Pompano Beach, FL. 33060.

COFFEE, come in and have a cup, it's free. Amateur Radio Center, 2805 N.E. Second Ave., Miami, Florida.

WANTED: Clegg 22'er in good shape. Will pay cash or swap Clegg 99'er like new in carton plus cash. Walt Stock W4IIS, 117 N.W. 100th St., Miami Shores, FL 33150. Phone PL-4-2995.

COCA-COLA, come in and have a Coke on the house, ARC, Miami.

WANTED: Panadaptor for use with SX-100 1650 kc i.f. and/or Drake 2-B, 455 kc. i.f. Victor E. Lindsay WB4HVE, 309 Dyer Dr., Stuart, FL 33494. Phone 287-4351.

FOR SALE: 100-V Central Electronics, extra fine condition, \$200.00. Call ARC, Miami 374-4101.

FOR SALE: Elco model 377 audio generator with manual \$25.00. Elco model 710 grid dip meter with 8 coils and manual \$20.00. BC FM table radio \$5. Howard Stark WA4MTH, 9231 Caribbean Blvd., Miami, Fla. 33157. Phone 238-6430.

MARK I Swan, Linear \$295.00. Call ARC 374-4101.

FOR SALE: HW-12, mike, HP-23 supply and both manuals presently on air. \$110.00 Sked? Collins ART-13 unmodified \$13.00. Heath Balum B-1 coils like new \$4.00. Back issues QST and CQ 10¢ each you pick up or 20¢ postpaid. Hallicrafters Sky rider with speaker. Looks and works good \$29. All FOB. Andy Clark W4IYT, 41 Lenape Dr., Miami Springs, Fla. 33166. Phone 888-3874.

Johnson, Kilowatt pedestal, full KW all modes. \$295.00. Call ARC Miami 374-4101.

FOR SALE: Heath Warrior (HA-10) \$130. B&W 5100 with 51SB \$130. NC-300 \$85. National Selectoject \$5. Pair new 4CX250B \$12. 3 new 7094 \$15 ea. Rex Trobridge, W4BYB, 224 Payne Drive, Miami Springs, Fla. 33166. Phone 305-887-8110.

UM-1 Globe, modulator, as is \$5.00. Call ARC 374-4101.

TRANSFORMERS REQUND. Jess Price, W4CLJ, 411 Gunby Ave., Orlando, Fla. 32801.

TR-106 Knight, 6 meter transceiver, like new \$85.00. Call ARC 374-4101.

FOR SALE: ARC-5 transmitters and receivers: one 5.4/7.0 mc BC458; two 7.0/9.1 mc BC459A; one 4.0/5.3 BC457A transmitters: one CBY-46106 6 to 9 mc; one R27-ARC-5 6. to 9.1 mc NXsa 90806; one BC453 190 to 550 kc (the Q-5er) receivers all like new from the estate of a local ham, never used. Price \$10.00 each of the lot, \$12.00 each you pick FOB. Read O. Martin W4VDY, Rt. #1 Box 134-B, Tavares, Fla. 32778.

R-100A Knight, Receiver, very clean \$69.50. Call ARC 374-4101.

FOR SALE: Mint HA-225 receiver ssb/am/cw \$70.00. Headset \$3.00 c.w. key \$1.00, mike \$8.00, new coaxial relay DK-60-G2C, 110 v.a.c. \$10.00. T-60 transmitter with 6 meter xtals \$50.00. All for \$150.00 or will swap for HW-22A or HW-32 with power supply and LA-400B linear. Bob Sturges WB4BYJ, 253 Canis Dr. West, Orange Park, Fla. 32073. Will ship COD.

MOSLEY, We stock complete line of Beams, Quads. Call ARC 374-4101.

- SPEECH BLOTS -

FEWER - LESS. Fewer refers only to things that can be counted. It is correct to say "Fewer persons came than we had prepared for," because persons can be counted. Less applies only to amount, degree, or value. It should be used only in connection with bulk and never with units that can be counted. Example: This recipe calls for less butter and fewer eggs than the one you use. (Butter cannot be counted; therefore we say less butter; eggs can be counted, so we say fewer eggs.)

AREN'T I - in order to avoid using the inelegant expression ain't some persons say aren't I? which is obviously ungrammatical, since we do not say I are not. The correct expression is am I not?

THANKS MUCH - the expression thanks has a curt sound and should be avoided. If a favor is worthy of gratitude, it warrants saying "thank you." Avoid using expressions as thanks much, thanks heaps, thanks awfully, thanks a lot. Say instead: Thank you very much.

TO-5 AND SMALLER

By Thomas De Bray K4KRJ

GROWTH OF THE IC. Integrated Circuits! How are IC's manufactured? Let's look at the growing processes involved in the fabrication of the IC.

There are at least six different forms of solid-state material used in IC's. As an example, these are units of material such as gold, tantalum, and aluminum; various forms of hermetic sealing substance; polymers, including silicones and plastics for part of the manufacturing process, and thin films including metals and oxides. Actually two or more of these materials are used in the construction of the IC.

The dual in-line plastic package IC, shown to the right contains 10 NPN transistors, 16 resistors, and 2 diodes. This unit is called an operational amplifier. It is very flexible because semiconductor networks are produced by the mass production of circuit elements. These elements are later interconnected by using a special concept. This technique connects many smaller individual circuits with larger, more complex circuits for what is called a hybrid circuit.

Now let's begin the construction of an actual IC. It begins with a bar of silicon from which slices of silicon are taken and used for a foundation for the circuits that are grown to it.

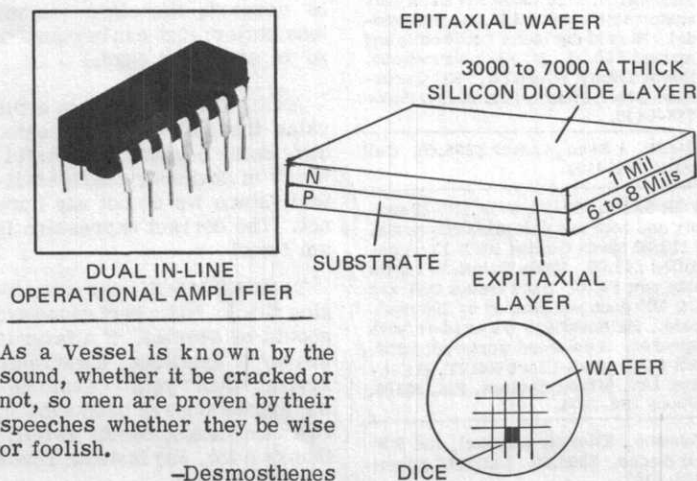
Much like our little IC helper slicing the hot dog, each little piece of hot dog, if you will, becomes a foundation for a circuit or many circuits. Mr. IC is slicing the hot dog into 7 milli-inch pieces. The wafer or slice may contain up to several hundred potential dice, each containing a complete IC. On this P-type wafer, let's call it the substrate, another wafer of epitaxial film, N-type silicon is grown. This N-type material ultimately becomes the collector region of the transistors or an element of the diodes and diffused capacitors associated with the circuit. This N-type material is 25 microns thick (1 mil or .001 inch is equal to 25.4 microns). If that seems immeasurable, let's look at the next process.

A thin film of silicon dioxide is thermally grown over the N-type material. This film is approximately 5,000 Angstroms thick (10,000 Angstroms is the same as 1 micron and it takes 25.4 microns to make .001 inches). Whew! See where a good microscope would come in handy?

Now let's go back and see what we have. We have the P-type wafer, the foundation. We have the N-type epitaxial film grown on top of the foundation. Then we have the 5,000 A's of silicon dioxide film grown on top of the N-type material. A real electronic sandwich, which is shown in FIG. 1.

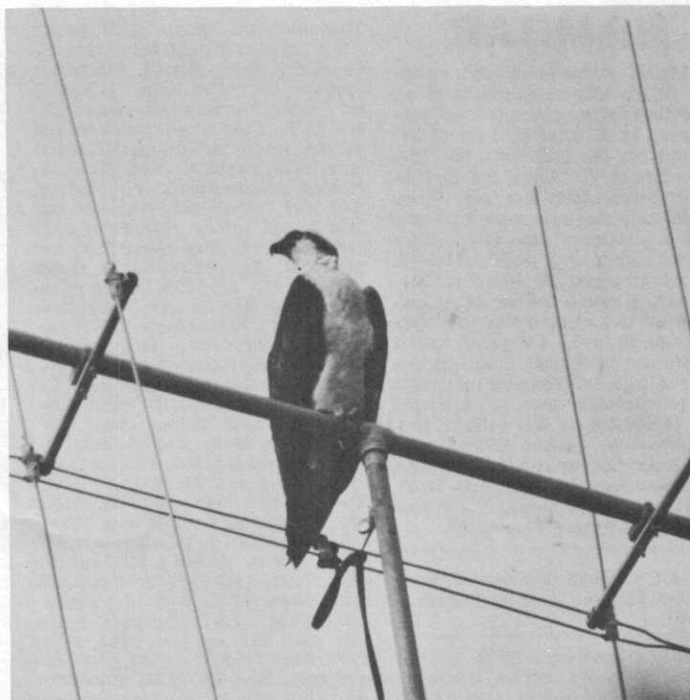
The substrate must be thick enough to be handled without breakage yet not so thick as to prevent clean separation after scribing.

There you have the basic wafer ready for processing. We will begin with the circuit processing next month and take you step by step through a very interesting series of growing pains for the little IC.



As a Vessel is known by the sound, whether it be cracked or not, so men are proven by their speeches whether they be wise or foolish.

—Desmosthenes



BOB CAIN, W4BQW, OF TAVERNIER, FLA. SAYS, "Everyone that passed seemed to be taking an unusual interest in my two-meter colinear antenna. This hadn't been noticed before until I found the cause was a "friend" who decided it was a good perch. This being Audubon Society country and a bird sanctuary, I'm wondering what will happen if he decides to nest up there. It isn't enough to have storms, high winds, etc. to contend with."

STUDY GUIDE

Incentive licensing was proposed by the American Radio Relay League and adopted in the summer of 1967 to bolster the hobby of ham radio, which had been hurt by the immense popularity of CB radio. Instead of having to apply for a Novice license, a would-be communicator could bypass this stage by applying for and receiving a CB license.

Newcomers began to look elsewhere than amateur radio for enjoyment and fulfillment in electronic communications. Old-timers bemoaned the fact that most new licensees were coming from CB ranks, untrained and largely uninterested in why the equipment worked. They were operators, untrained in the construction or even repair of their own gear.

Incentive licensing has wrought sweeping changes in ham radio. Privileges are being taken away from one group and passed on to another. Frequencies are being cut (drastically in some cases), and something new is being created: "exclusive reserved bands," something the United States has never known in its Amateur Radio Service. Whether the incentive program will achieve all its goals remains to be seen.

AMATEUR RADIO INCENTIVE LICENSING STUDY GUIDE, by Robert M. Brown, K2ZSQ/W9HBF, and Tom Kneitel, K2AES, has been written for newcomers to ham radio and for those "old-timers" who are affected by incentive licensing. The book contains all the new FCC regulations and band allocations concerning new incentive licensing regulations, and questions and answers covering the new Advanced-Class license and the modified requirements of the Extra-Class examination. Sample examinations for Novice, Technician, Conditional, and General-Class license examinations are included.

Copies are available from electronics parts distributors and bookstores throughout the country, or from the publisher.

REVIEW GALLEYS AVAILABLE UPON REQUEST (Review Copies available after publication date) FROM: R. R. Fleck, Howard W. Sams & Co., Inc., 4300 West 62nd Street, Indianapolis, Ind., 46206. Tearsheets of your review will be appreciated.

AMATEUR RADIO INCENTIVE LICENSING STUDY GUIDE
Size: 160 pages, 5-1/2 x 8-1/2"
List Price: \$2.75